

#### 2020 - 2021 Branch Board

##### President

Steve Alpert, PE  
HNTB Corporation  
(973) 434-3153  
salpert@hntb.com

##### President-Elect

James Heeren, PE, ENV SP  
Dewberry  
(973) 576-0149  
jheeren@dewberry.com

##### Vice President

Walter Mulvany  
Malick & Scherer  
(908) 537-1360  
wmulvany@malickandscherer.com

##### Secretary

Carlos Lopez, PE  
Michael Baker International  
(973) 776-7423  
carlos.lopez@mbakerintl.com

##### Treasurer

Jay Rana, PE  
HNTB Corporation  
(973) 434-3208  
jrana@hntb.com

##### First Past President

Laura Hazen, PE  
HNTB Corporation  
(973) 434-3120  
lhazen@hntb.com

##### Second Past President

Anne Marie Sinagra, PE, CME  
NJ Turnpike Authority  
(732) 750-5300  
sinagra@njta.com

##### Branch Director

John Withers, PE, PP  
Stantec  
john.withers@stantec.com

##### Branch Director

Leslie Brunell, Ph.D., PE  
Stevens Institute of Technology  
(201) 216-5337

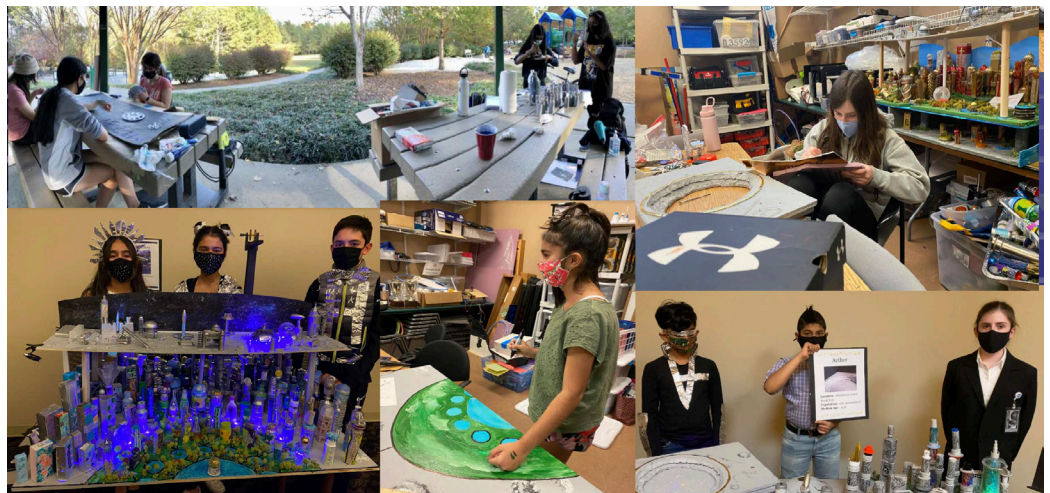
##### YMG President

Elizabeth DeCarlo, PE  
Michael Baker International  
(973) 776-8619  
Elizabeth.DeCarlo@mbakerintl.com

## Branch Leadership Opportunities

ASCE North Jersey Branch is seeking volunteers interested in serving on the Board of Directors. If you want to become more involved in the North Jersey Branch, please contact us to learn more! Nominations are now open for all positions except President. Available positions include: Director, Secretary, Treasurer, Vice President, and President-Elect.

To learn more about what is involved in being on the NJB Board or to express interest, please contact Jim Heeren at [president-elect@ascenjrb.org](mailto:president-elect@ascenjrb.org). Nominations are open through early April. Ballots will be sent by email in April and the new Board will be sworn in at the Awards Dinner in the fall.



## Stellar Cities! New Jersey Students Compete in First Ever All-Virtual Future City Competition

Regolith and asteroids and space ice, oh my! This year's New Jersey Future City Competition was a blast, with teams from all over the state competing in a quest to design and build the best Future City on Earth's closest neighbor, the Moon. Despite the difficulties and obstacles placed in their way during this unique year, over 25 teams of 6th, 7th, and 8th grade students competed for the Grand prize of 1st place and the opportunity to represent all of New Jersey in the National Competition.

After many hours of hard work and determination and final scores within points of one another, a team of three Chatham Middle School students came out on top with their city Helianthus. This revolutionary city is cradled within the lava tubes of the highlands of Philolaus Crater and sustained using lunar resources like helium-3 and lunar ice. The young engineers, Priyanka Patel, Ishita Yadav, and Dhiren Holland imagined this vibrant multi-national city to include all the comforts of home and more. From "outdoor" plazas and vertical agriculture to nanobots and gene modifications, these eighth graders gave everyone a small glimpse of our potential futures.

# A Message from the President

Fellow North Jersey Branch Members,

It has been a pleasure serving thus far as your President. COVID has presented us all with unique challenges, from how we conduct business as a Branch Board to how we organize our events. At our most recent professional event, for example, we debuted the use of WebEx Meetings instead of Events for a more streamlined registration process and increased ability to network between attendees and hosts. We are continuing to look at how we can better use technology to communicate with our membership and deliver content and value. We continue to have very strong attendance at our events and I appreciate seeing all of you there.

One of the struggles we all face is how to add content during these times of social distancing beyond just spending our lunchtime together to earn PDHs. It's not always easy; Engineer's Week is radically different this year around the country, and we won't have the usual opportunity to reach out and mentor schoolchildren in person. Our Younger Member Group has held some events, but of course we cannot do our in-person happy hours or other outings. We have started our annual scholarship drive and that is a great opportunity to contribute now for the brighter future we all look forward to, so I encourage all of you to visit our website (and see the notice in this newsletter) to contribute.

Looking forward, we have the remainder of our yearly slate of events planned, with upcoming presentations from COPRI and a half-day seminar from SEI coming first. We are continuing to monitor COVID restrictions and best practices to see if we can hopefully have our Construction Technical Group annual site visit in June. It may look different than usual, and we may not be able to gather for the usual dinner and presentation afterwards, but our fingers are crossed that we can do something to get people back together in person.

It's hard to believe that my tenure is almost half over. As long as COVID seems to drag on, time marches inexorably forward. Soon, hopefully, we will all be receiving vaccines. Soon, hopefully, we will be able to meet clients in person instead of virtually, and collaborate with our coworkers in person instead of virtually. For ASCE, we are all excited to get back to the in-person dinners and the networking happy hours before them. Our world has changed forever, and I know both consultants and agencies are looking at incorporating more virtual/electronic content going forward, which is something we are going to look toward as well in the coming years to further engage our members. But if there's one truth in our industry, it's that there is no substitute to making connections in person. Until then, be well and stay safe.

Sincerely,  
Steve Alpert, PE  
[president@ascenjb.org](mailto:president@ascenjb.org) | 973-434-3153



**REMEMBER TO VISIT**  
[www.ascenjb.org](http://www.ascenjb.org)

**Active & Updated Calendar**  
with live links for event  
registration

**Become a Sponsor**

**Photo Galleries**

**Job Postings**

**Scholarships**  
and much more!

# Upcoming Technical Events

## COPRI Event: Thursday March 25, 2021

On Thursday, March 25, 2021, the ASCE COPRI North Jersey Chapter will present two (2) PDH presentations via live webinar. Registration is open now at <https://coprimar4.eventbrite.com/>

### “Above and Underwater Inspection of Waterfront Structures”

by Robert F. Garrity, PE – Engineer Divers Group Leader and Brian J. DeBaun, PE – Engineer Divers Group New Jersey Leader

### “Rock Quality and Construction Quality Control for Rubblemound Structures”

By Brent Sumner, B.Sc., P.E., Senior Engineer W.F. Baird & Associates Ltd.



**COASTS, OCEANS,  
PORTS & RIVERS  
INSTITUTE**

**North Jersey Branch  
Chapter**

## April 2021

Geotechnical Technical Group (GTG)  
Structural Engineering Institute (SEI) Half-Day Seminar

## May 2021

Utility Engineering and Surveying Institute (UESI)

## June 2021

Construction Technical Group (CTG)



# ASCE's 2021 Infrastructure Report Card

Save the Date: 03/03/21

[infrastructurereportcard.org/2021-release](http://infrastructurereportcard.org/2021-release)

## NJ REPORT CARD VOLUNTEERS NEEDED!

The ASCE New Jersey Section is looking for volunteers to get involved in researching, promoting, and preparing the next NJ Infrastructure Report Card. Please contact Chris Hanna, PE for more information or if you are interested in participating: [jerseyengineer@gmail.com](mailto:jerseyengineer@gmail.com)

# Recent Event Highlights

## Water & Environmental Technical Group Event: Resilient Infrastructure

On December 16, 2020, ASCE's North Jersey Branch Water & Environmental Technical Group had a good turnout of over 40 virtual participants for a presentation on Resilient Infrastructure, despite a last minute rescheduling. The topic was presented by Trygve Hoff, P.E., Northeast Region Engineer for the American Concrete Pipe Association. The presentation included discussion of how resilient construction methods are designed to withstand floods, fires, and earthquakes by absorbing impact and continuing to provide service after an event with little or no repairs required.

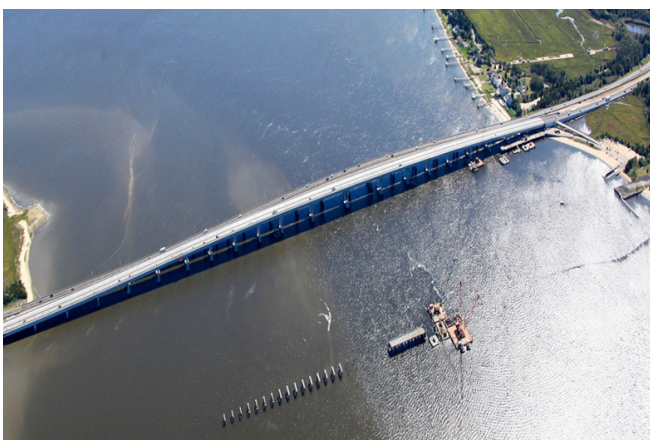
## Transportation Technical Group Event: Accelerated Bridge Construction

On January 14, 2021, ASCE's North Jersey Branch Transportation Technical Group cosponsored a virtual event with American Society of Highway Engineers North Central New Jersey Section. The event featured a presentation on the Superstructure Replacement of Route 676 over North Branch of Newton Creek Utilizing Accelerated Bridge Construction. The event was presented by Matt Alboum, P.E., and Erica Parriott, P.E., both of Dewberry.

The project is located in a heavily travelled section of Interstate 676 in Camden, New Jersey. The circa 1954 bridges were 80' long single span, steel multi-girder structures supported on common reinforced concrete abutments that carry an estimated 81,000 vehicles per day over the North Branch of Newton Creek. Despite the project challenges, the use of ABC technologies allowed for the superstructure replacements to be successfully completed within the required closure windows over four weekends with minimal impact to the community.



## North Jersey Chapter of the Structural Engineering Institute Event: Garden State Parkway- Great Egg Harbor Bridge



On February 22, 2021, ASCE's North Jersey Chapter of the Structural Engineering Institute presented a virtual Structural Seminar about the construction of the new Great Egg Harbor Bridge on the Garden State Parkway. The seminar was presented by Mr. Peter W. Singhofen, PE, Project Engineer with the New Jersey Turnpike Authority and Mr. Robert F. Supino, PE, Principal Associate with Hardesty & Hanover. The presentation described how the bridge superstructure consists of five units of 95.5" tall prestressed precast concrete girders and one posttensioned spliced-girder unit. The new structure over Drag Channel consists of 10 spans of AASHTO Type III precast prestressed concrete I-beam spans, 77 ft in length. A recreational area was added, and lane widths and shoulders were increased.

# Celebrate: Engineers Week

Engineers Week 2021 has just concluded, but ASCE will continue to celebrate engineers all year long. ASCE NJB encourages everyone to celebrate engineering more than just one week a year -- help us to promote our profession by imagining tomorrow and how engineering can make a difference.



## Discover-e Persist Series: A Worldwide Speaker Series Building Staying Power for Women in Engineering & Tech

Each second Wednesday of the month, join thousands of women around the world to hear inspiring stories and candidly discuss topics like inclusive workplace cultures and developing a growth mindset. Sign up now for this month's conversation: "Know Your Roots and Branch Out." Visit <http://www.discovere.org/our-programs/persist-series> for more information.

The banner features the 'DISCOVER PERSIST Series' logo on the left and 'IN PARTNERSHIP WITH doGoodery' on the right. The main title 'KNOW YOUR ROOTS AND BRANCH OUT' is in large, colorful letters, with the date 'MARCH 10, 2:00 PM ET (USA)' below it. At the bottom, there are four circular portraits of women. From left to right: Andronica Klaas (Hosted By), Vanessa Raquel Raponi (Moderated By), Abi Babajide-Ferguson (Featuring), and Lori Fremin (Featuring). Each name is in a colored box below their portrait.

DISCOVER PERSIST Series

IN PARTNERSHIP WITH doGoodery

# KNOW YOUR ROOTS AND BRANCH OUT

MARCH 10, 2:00 PM ET (USA)

Hosted By  
Andronica Klaas  
(Facebook)

Moderated By  
Vanessa Raquel Raponi  
(Spin Master)

Featuring  
Abi Babajide-Ferguson  
(Shell Deepwater)

Featuring  
Lori Fremin  
(Shell Deepwater)

# North Jersey Branch Scholarships

## 2021 Family Member Scholarship

The North Jersey Branch will award a scholarship to a child or grandchild of a member of the ASCE North Jersey Branch currently pursuing a Civil Engineering undergraduate degree. The scholarship will be awarded to a college junior who demonstrates strong academic and extracurricular achievement.

## 2021 Graduate Scholarship

The North Jersey Branch will award a scholarship to a qualified graduate student who demonstrates academic and extracurricular achievement. The scholarship is for a student who is a member of the North Jersey Branch of ASCE and is enrolled in a graduate level civil engineering-related program. The student must continue in their engineering-related graduate studies for at least one year after being awarded the scholarship. Previous recipients of this scholarship are not eligible.

## 2021 College Scholarship

The North Jersey Branch has three affiliated colleges/universities in the North Jersey area that have ASCE student chapters or clubs:

- New Jersey Institute of Technology
- Stevens Institute of Technology
- Fairleigh Dickinson University

The North Jersey Branch will award scholarships to qualified students who demonstrate academic and extracurricular achievement. Scholarships are awarded to juniors who attend any of the three affiliated institutions listed above. The junior must be in a civil engineering curriculum and should be in the next to last year of their degree program.

## 2021 High School Scholarship

The North Jersey Branch will award a scholarship to a high school student who intends to pursue a Bachelor's degree in Civil Engineering or an Associate's degree in Civil Engineering Technology. The student must be a high school senior who resides in the jurisdiction of the North Jersey Branch, namely Sussex, Warren, Morris, Passaic, Bergen, Essex, Union, or Hudson County. The senior must intend to graduate from high school in spring 2021 and must have applied to schools that offer an ABET-accredited Civil Engineering or Civil Engineering Technology program.

**SCHOLARSHIP  
APPLICATIONS  
DUE APRIL 23**

[www.ascenjb.org/applications](http://www.ascenjb.org/applications)

# Branch Award Nominations Opening Soon

Shine the spotlight on your colleagues and peers by nominating them for the recognition they deserve. ASCE North Jersey Branch will soon be seeking nominations for its Annual Awards, including:

- **Civil Engineer of the Year**
- **Government Engineer of the Year**
- **Educator of the Year**
- **Service to the People**
- **Project of the Year**
- **Young Civil Engineer of the Year**
- **Excellence in Journalism**

The nomination form will be available on our website and in the next issue of this newsletter. Awards will be presented at the Annual Awards Dinner, tentatively planned for September 2021. For more information about awards, please visit our website at [www.ascenjb.org](http://www.ascenjb.org).



# Younger Member Group (YMG) Roundup

## Upcoming YMG Events:

- Virtual Fitness Night – Joint Event with Metropolitan Section YMF – March and May (Dates TBD)
- Practice PE/FE Exam - April (Date TBD)
- Career Carnival for Kids (Date TBD)

## Past YMG Events:

**Virtual Open Meeting/ Happy Hour – January 13th, 2021.** The NJB YMG hosted a virtual Open Meeting and Happy Hour. During the Open Meeting, YMG President Liz DeCarlo gave a presentation about the opportunities ASCE and the YMG offer members. Afterwards, members were able to share a drink virtually with members of the board and ask questions and network. It was a successful event and we will host more in the future!

**Little Ferry Middle School Presentation for 6th and 8th Graders – February 2, 2021.** Two of our K-12 Outreach Chairs, Chelsie Scarafile and Parth Rana, gave a virtual presentation to 30 students from the Little Ferry Middle School. Students learned about what a Civil Engineer does and were able to interact with our presenters to get an insight into what they do.

**NJIT Student Chapter Resume Review – February 15, 2021.** The NJIT Student Chapter requested volunteers to review resumes in preparation for their career fair. The YMG had about 12 volunteers and almost 30 students who submitted their resumes. The students were appreciative as they received feedback from industry professionals. We wish them the best of luck in their career search!



Congratulations to ASCE's New Faces of Civil Engineering - Professional Division! To meet this year's honorees, visit <https://www.asce.org/new-faces-professional/>

## YMG Board 2020-2021

President:  
Elizabeth DeCarlo  
(elizabeth.decarlo@mbakerintl.com)

President-Elect/Vice President:  
Juan Alfonso  
(jualfonso@hntb.com)

Treasurer:  
Kristopher Reidy  
(kreidy@hntb.com)

Secretary:  
Emmanual Rodriguez  
(emmanual.rodriguez@mbakerintl.com)

Instagram: @ascenjbymg <https://www.instagram.com/ascenjbymg/>  
Facebook: <https://www.facebook.com/ascenjbymg>  
Website: <https://www.ascenjb.org/ymg-overview/>

# 2020-2021 ASCE North Jersey Branch Sponsors



# Dewberry®

# HNTB



**EXPAND YOUR REACH**

NJB Newsletters go out to  
over 2,000 members!



**YOUR LOGO HERE**

Contact Mona Cavalcoli  
([mcavalcoli@gmail.com](mailto:mcavalcoli@gmail.com))  
for more details on becoming  
a Branch sponsor through  
September 2021

[www.ascenj.org/sponsorship](http://www.ascenj.org/sponsorship)